

Title (en)
Fastener setting algorithm for drill driver

Title (de)
Befestigungsmittelsetzalgorithmus für Bohrschrauber

Title (fr)
Algorithme de pose de fixations pour perceuse

Publication
EP 2671682 A2 20131211 (EN)

Application
EP 13171100 A 20130607

Priority
• US 201261657269 P 20120608
• US 201313832549 A 20130315

Abstract (en)
An improved technique is presented for detecting, for example, when a fastener driven by a drill driver or screwdriver has reached a desired stopping position. The improved techniques generally includes: sampling periodically current delivered to the electric motor; storing a sequence of current measurements most recently sampled; and determining a slope for the sequence of current measurements by way of linear regression. Transmission of torque to the output spindle can be interrupted based in part on the slope of the current measurements.

IPC 8 full level
B25B 23/147 (2006.01)

CPC (source: EP US)
B25B 23/147 (2013.01 - EP US); **G05B 15/02** (2013.01 - US)

Cited by
CN109492329A; CN103264370A; CN104526067A; DE102015211700A1; WO2016206861A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2671682 A2 20131211; **EP 2671682 A3 20180314**; US 2013331994 A1 20131212; US 8919456 B2 20141230

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EP 13171100 A 20130607; US 201313832549 A 20130315